

1. Record Nr.	UNINA9910416143703321
Titolo	Carbon-Related Materials : In Honor of Nobel Laureate Akira Suzuki's Lecture at IUMRS-ICEM 2018 // edited by Camelia Miron, Paolo Mele, Satoru Kaneko, Tamio Endo
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-44230-6
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XVI, 142 p. 84 illus., 66 illus. in color.)
Disciplina	620.115
Soggetti	Nanotechnology Electronics Microelectronics Electronic circuits Electronics and Microelectronics, Instrumentation Electronic Circuits and Devices
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Introduction to Raman spectroscopy of chemically functionalized CVD graphene -- Applications of Graphite Materials in the Field of Electromagnetic Compatibility -- Carbon Fibre Reinforced Polymer Materials for Antennas and Microwave Technologies -- Structural Design and Optimization of Slotted Waveguide Antenna Stiffened Structures Under Compressive Load -- The Influence of Azobenzene Content on Azopolyimides Capacity to Form Laser-Induced Surface Relief Gratings -- Structural Modifications of Polymers and Nanocomposites Synthesis by Pulsed Electrical Discharges in Liquids -- Index.
Sommario/riassunto	This book will give a detailed description of different carbon based materials synthesis methods, characterization, and applications. It serves as a fundamental information source on the actual techniques and methodologies involved in carbon materials synthesis, such as CVD, plasma in liquids, fusion reactors, or frequency-doubled yttrium–aluminum– garnet (YAG) lasers. This book includes coverage of several

categories of carbon materials, such as graphene, carbon fiber composites, functionalized carbons, and polyimides used for various applications, from microelectronic industry to slotted waveguide antennas. Offers the widest possible panorama of the state-of-the-art in carbon materials and their applications, from an interdisciplinary engineering point of view; Covers several categories of carbon materials, such as graphene, carbon fiber composites, functionalized carbons, and polyimides; Discusses synthesis, characterization, and processing of superconducting materials; Includes coverage of the state-of-the-art of polycondensation methods for various types of polyimide synthesis and their structural modification by plasma in liquids films.

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